FAA CERTIFICATION PERFORMANCE OF JOB TASKS

Applicant's Last Name: **First Name:** **MI:** **Last Four SSN:**

Military Job Classification:

Military Job Classification Description:

This document is not complete and cannot be presented to the FAA Flight Standards District Office (FSDO) to gain authorization for testing without the official CG-G-EAE-4 Form, *Certificate of Eligibility*, displaying the certifying agency's signature and raised embossed seal.

Unit Approving Authority:

Army: Aircraft Maintenance Officer
Air Force: Aircraft Maintenance Officer
Navy: Maintenance Officer
Coast Guard: Engineering Officer
Marine Corps: Maintenance Officer

I verify that _____ has successfully satisfied the established FAA requirements of practical aircraft maintenance experience for the (Circle one) Airframe, Powerplant, or Airframe and Powerplant Certificates per Title 14, Code of Federal Regulations (CFR), Part 65.77, including a total of _____ months of combined practical experience while performing the duties within the career field of aviation maintenance.
(**See above for Unit Approving Authority**)

Unit Approving Authority Signature_____Print Name_____
Unit_____Date_____

JOINT MILITARY SERVICES AIRFRAME AND POWERPLANT PROGRAM

Applicant's Last Name:	First Name:	MI:	Last Four SSN:

As the applicant's trainer and/or certifier, I certify that I am qualified in the specialty I have initialed and the applicant has completed all formal, on-the-job training, and/or practical experience requirements for each task (**Note 2**).

Printed Name	Initials	A&P # / Rank / Grade	Date

**** THERE ARE SEVERE CRIMINAL AND CIVIL PENALTIES FOR KNOWINGLY SUBMITTING A FALSE, FICTITIOUS, OR FRAUDULENT STATEMENT OF COMPLETED TRAINING. THE U.S. CRIMINAL CODE (TITLE 18, SECTION 1001) PROVIDES THAT KNOWINGLY FALSIFYING OR CONCEALING A MATERIAL FACT IS A FELONY, WHICH MAY RESULT IN FINES UP TO $10,000, AND/OR 5 YEARS IMPRISONMENT, OR BOTH. ****

Unit Approving Authority Signature_____Print Name_____
Unit_____Date_____

JOINT MILITARY SERVICES AIRFRAME AND POWERPLANT PROGRAM

Applicant's Last Name:	First Name:	MI:	Last Four SSN:

NOTES:

1. Proficiency Training Levels.

   LEVEL 1 = Know basic facts and principles. Be able to find information, and follow directions and written instructions. Skill demonstration is ***not*** required.

   LEVEL 2 = Know and understand, principles, theories and concepts. Be able to find and interpret information and perform basic operations. A high level of skill is ***not*** required.

   LEVEL 3 = Know, understand and apply facts, principles, theories and concepts. Understand how they relate to the total operation and maintenance of aircraft. Be able to make independent and accurate airworthiness judgments. Perform all operations to a return-to-service standard. A fairly high skill level ***is*** required.

2. Only an E-6 and above (military) or WG-10 and above (civilian) qualified in the appropriate specialty, or a FAA certificated A&P mechanic can verify completion of a task. (Example: E-6 Propulsion Specialist for Powerplant subject tasks, etc.) If the trainer/certifier possess FAA A&P certification, annotate certificate number in the appropriate block.

3. Subject task blocks that are electronically shaded and initialed/dated or "X'd" indicate task completion by previous occupational training and experience and verified by authorized personnel from the respective service.

Applicant's Name:	Last Four SSN:

GENERAL CURRICULUM SUBJECTS Appendix B	Proficiency LEVEL (Note 1)	Initials	Completion Date
A. Basic Electricity			
1. Calculate and measure capacitance and inductance	(1)		
2. Calculate and measure electrical power	(1)		
3. Measure voltage, current, resistance, and continuity	(3)		
4. Determine the relationship of voltage, current, and resistance in electrical circuits	(3)		
5. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions	(3)		
6. Inspect and service batteries	(3)		
B. Aircraft Drawings			
7. Use aircraft drawings, symbols, and system schematics	(2)		
8. Draw sketches of repairs and alterations	(3)		
9. Use blueprint information	(3)		
10. Use graphs and charts	(3)		
C. Weight and Balance			
11. Weigh aircraft	(1)		
12. Perform complete weight and balance check and record data	(3)		
D. Fluid Lines and Fittings			
13. Fabricate and install rigid and flexible fluid lines and fittings	(3)		
E. Materials and Processes			
14. Identify and select appropriate non-destructive testing methods	(1)		
15. Perform dye penetrant, eddy current, ultrasonic, and magnetic particle inspections	(2)		
16. Perform basic heat-treating processes	(1)		
17. Identify and select aircraft hardware and materials	(3)		
18. Inspect and check welds	(3)		
19. Perform precision measurements	(3)		
F. Ground Operation and Servicing			
20. Start, ground operate, move, service, and secure aircraft and identify typical ground operation hazards	(2)		
21. Identify and select fuels	(2)		
G. Cleaning and Corrosion Control			
22. Identify and select cleaning materials	(3)		
23. Inspect, identify, remove, and treat aircraft corrosion and perform aircraft cleaning	(3)		
H. Mathematics			
24. Extract roots and raise numbers to a given power	(3)		
25. Determine areas and volumes of various geometrical shapes	(3)		
26. Solve ratio, proportion, and percentage problems	(3)		
27. Perform algebraic operations involving addition, subtraction, multiplication, and division of positive and negative numbers	(3)		

Applicant's Name:	Last Four SSN:

GENERAL CURRICULUM SUBJECTS Appendix B	Proficiency LEVEL (Note 1)	Initials	Completion Date
I. Maintenance Forms and Records			
28. Write descriptions of work performed, including aircraft discrepancies and corrective actions using typical aircraft maintenance records	(3)		
29. Complete required maintenance forms, records, and inspection reports	(3)		
J. Basic Physics			
30. Use and understand the principles of simple machines; sound, fluid, and heat dynamics; basic aerodynamics; aircraft structures; and theory of flight	(2)		
K. Maintenance Publications			
31. Demonstrate ability to read, comprehend, and apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, and related Federal Aviation Regulations, Airworthiness Directives, and Advisory materials	(3)		
L. Mechanic Privileges and Limitations			
32. Understand mechanic privileges within the limitations prescribed by FAR 65	(3)		

AIRFRAME CURRICULUM SUBJECTS Appendix C	Proficiency LEVEL (Note 1)	Initials	Completion Date
I. AIRFRAME STRUCTURES			
A. Aircraft Finishes			
1. Apply trim, letters, and touchup paint	(1)		
2. Identify and select aircraft finishing materials	(2)		
3. Apply finishing materials	(2)		
4. Inspect finishes and identify defects	(2)		
B. Sheet Metal and Non-Metallic Structures			
5. Select, install, and remove special fasteners for metallic, bonded, and composite structures	(2)		
6. Inspect, test, and repair fiberglass, plastics, honeycomb, composite, and laminated primary and secondary structures	(2)		
7. Inspect, check, service, and repair windows, doors, and interior furnishings	(2)		
8. Inspect and repair sheet-metal structures	(3)		
9. Install conventional rivets	(3)		
10. Form, lay out, and bend sheet-metal	(3)		
C. Welding			
11. Understand the principles of welding: magnesium, titanium, stainless steel, and aluminum	(1)		

Applicant's Name:	Last Four SSN:		
AIRFRAME CURRICULUM SUBJECTS Appendix C	**Proficiency LEVEL (Note 1)**	**Initials**	**Completion Date**
D. Assembly and Rigging			
12. Rig rotary-wing aircraft	(1)		
13. Rig fixed-wing aircraft	(1)		
14. Check alignment of structures	(1)		
15. Assemble aircraft components, including flight control surfaces	(3)		
16. Balance, rig and inspect movable primary and secondary flight control surfaces	(3)		
17. Jack aircraft	(3)		
E. Airframe Inspection			
18. Perform airframe conformity and airworthiness inspections	(3)		
II. AIRFRAME SYSTEMS AND COMPONENTS			
A. Aircraft Landing Gear Systems			
19. Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires, and steering systems	(3)		
B. Hydraulic and Pneumatic Power Systems			
20. Identify and select hydraulic fluids	(3)		
21. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems	(3)		
C. Cabin Atmosphere Control Systems			
22. Inspect, check, troubleshoot, service, and repair heating, cooling, air-conditioning, and pressurization systems	(2)		
23. Inspect, check, troubleshoot, service, and repair oxygen systems	(2)		
D. Aircraft Instrument Systems			
24. Inspect, check, service, troubleshoot, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment	(1)		
25. Install instruments and perform a static pressure system leak test	(2)		
E. Communication and Navigation Systems			
26. Inspect, check, and troubleshoot autopilot, servos and approach coupling systems	(1)		
27. Inspect, check, and service aircraft electronic communication and navigation systems, including VHF, passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, radar beacon transponders, flight management computers and GPWS	(1)		
28. Inspect and repair antenna and electronic equipment installations	(2)		

Applicant's Name:	Last Four SSN:

AIRFRAME CURRICULUM SUBJECTS Appendix C	Proficiency LEVEL (Note 1)	Initials	Completion Date
F. Aircraft Fuel Systems			
29. Check and service fuel dump systems	(1)		
30. Perform fuel management, transfer and defueling	(1)		
31. Inspect, check, and repair pressure fueling systems	(1)		
32. Inspect and repair fluid quantity indicating systems	(2)		
33. Troubleshoot, service, and repair fluid pressure and temperature warning systems	(2)		
34. Inspect, check, service, troubleshoot, and repair aircraft fuel systems	(3)		
G. Aircraft Electrical Systems			
35. Repair and inspect aircraft electrical system components; crimp and splice wiring to manufacturers' specifications; and repair pins and sockets of aircraft connectors	(2)		
36. Install, check, and service airframe electrical wiring, controls, switches, indicators and protective devices	(3)		
37. Inspect, check, troubleshoot, service, and repair alternating and direct current electrical systems	(3)		
38. Inspect, check, and troubleshoot constant speed and integrated speed drive generators	(1)		
H. Position and Warning Systems			
39. Inspect, check, and service speed and configuration warning systems, electrical brake controls, and anti-skid systems	(1)		
40. Inspect, check, troubleshoot, and service landing gear position indicating and warning systems	(1)		
I. Ice and Rain Control Systems			
41. Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems	(2)		
J. Fire Protection Systems			
42. Inspect, check, and service smoke and carbon monoxide detection systems	(1)		
43. Inspect, check, troubleshoot, and repair aircraft fire detection and extinguishing systems	(3)		

Applicant's Name:	Last Four SSN:

POWERPLANT CURRICULUM SUBJECTS Appendix D	Proficiency LEVEL (Note 1)	Initials	Completion Date
I. POWERPLANT THEORY AND MAINTENANCE			
A. Reciprocating Engines			
1. Troubleshoot, service, and repair reciprocating engines and engine installations	(2)		
2. Remove and Install reciprocating engines	(2)		
B. Turbine Engines			
3. Troubleshoot, service, and repair turbine engines and turbine engine installations	(3)		
4. Remove and Install turbine engines	(3)		
C. Engine Inspection			
5. Perform powerplant conformity and airworthiness inspections	(3)		
II. POWERPLANT SYSTEMS AND COMPONENTS			
A. Engine Instrument Systems			
6. Troubleshoot, service, and repair electrical and mechanical fluid rate-of-flow indicating systems	(2)		
7. Inspect, check, service, troubleshoot, and repair electrical and mechanical engine temperature, pressure, and R.P.M. indicating systems	(3)		
B. Engine Fire Protection Systems			
8. Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems	(3)		
C. Engine Electrical Systems			
9. Repair engine electrical system components	(2)		
10. Install, check, and service engine electrical wiring, controls, switches, indicators, and protective devices	(3)		
D. Engine Lubricating Systems			
11. Identify and select lubricants	(2)		
12. Inspect, check, service, troubleshoot, and repair engine lubrication systems	(3)		
E. Ignition and Starting Systems			
13. Inspect, service, troubleshoot, and repair reciprocating and turbine engine ignition systems and components	(2)		
14. Inspect, service, troubleshoot, and repair turbine engine electrical starting systems	(3)		
15. Inspect, service, and troubleshoot turbine engine pneumatic starting systems	(1)		

Applicant's Name:	Last Four SSN:		
POWERPLANT CURRICULUM SUBJECTS Appendix D	**Proficiency LEVEL (Note 1)**	**Initials**	**Completion Date**
F. Fuel Metering Systems			
16. Troubleshoot and adjust turbine engine fuel metering systems and electronic engine fuel controls	(1)		
17. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine fuel metering systems	(3)		
G. Engine Fuel Systems			
18. Inspect, check, service, troubleshoot, and repair engine fuel systems	(3)		
H. Induction and Airflow Systems			
19. Inspect, check, troubleshoot, service, and repair engine ice and rain control systems	(1)		
20. Inspect, check, troubleshoot, service, and repair heat exchangers, supercharger and turbine engine airflow and temperature control systems	(1)		
21. Inspect, check, service, and repair carburetor air intake and induction manifolds	(1)		
I. Engine Cooling Systems			
22. Inspect, check, troubleshoot, service, and repair engine cooling systems	(1)		
J. Engine Exhaust System Components			
23. Inspect, check, troubleshoot, service, and repair engine exhaust systems	(3)		
24. Troubleshoot and repair engine thrust reverser systems and related components	(1)		
K. Propellers/Rotors			
25. Inspect, check, service, and repair propeller/rotor synchronizing and ice control systems	(1)		
26. Identify and select propeller/rotor lubricants	(2)		
27. Balance propellers/rotor	(1)		
28. Repair propeller/rotor control system components	(2)		
29. Inspect, service, and repair propellers/rotors and propeller/rotor governing systems	(2)		
30. Install, troubleshoot, and remove propellers/rotors	(3)		
31. Repair aluminum alloy blades	(2)		
L. Auxiliary Power Units			
32. Inspect, check, service and troubleshoot turbine-driven auxiliary power units	(2)		

Applicant's Name:	Last Four SSN:

AVIATION SAFETY CURRICULUM SUBJECTS	Proficiency LEVEL (Note 1)	Initials	Completion Date
A. Aviation Safety			
1. Fuels, lubricants, or hydraulic fluids	(1)		
2. Flammable cements, rosins, sealants, paints and thinners	(1)		
3. Fluids under pressure	(1)		
4. Compressed gasses, including oxygen	(1)		
5. Batteries	(1)		
6. Aviation ordnance and pyrotechnics	(1)		
7. Electrical and electronic circuits	(1)		
8. Operating radio transmitters and radar systems	(1)		
9. Hazardous noise sources	(1)		